## PRO. T EVALUATION FORM

\* Data supplied herein subject to revision upon receipt of Final Project Plans

1.	Project SpensorCity of Philadelphia - Water Department
2.	Municipal Location - Municipality: Philadelphia County Philadelphia
	Receiving Stream: Delaware River (Mile Pt. 91.5)
3.	Name & Address of Engineer Carmen F. Guarino, Water Commissioner
4٨.	Proposed Project Description (Attach Map) Expand and Upgrade Wastewater Treatment
712	Facilities at City of Phila. Southwest Water Pollution Control Plant, 80th and
	Penrose Avenue, Phila., Pa., in accordance with joint orders of the DRBC and Common
	wealth of Pennsylvania issued June-July, 1968.
8	
В.	List Design Year(s) Collection
	of the Proposed Project  Conveyance (Interceptors)
27	Treatment 1990
٦	Wastewater Flows: Complete the Fellowing Table

		1	Initial Plant Start	5-Year	Design Year .
1. EQUIYALEN	T POPULATION TO BE SER	VED	(riant Start	.ub)	
o. DOMESTI	o. DOMESTIC			1,430,000	1,525,000
b. INDUSTR	b. INDUSTRIAL (estimated)			250,000	475,000
c. TOTAL		130,000 1,1110,000	1,680,000	2,000,000	
2. DESIGN YEAR OR PERIOD FOR OPERATING DATA					1990
3. RUNOFF PERIOD (Hrs.)				الزلاك	
4. DOMESTIC	o. PER CAPITA FLOW 2	(GPCD)	55	56	60
WASTE FLOW DATA	b. AVERAGE DAILY FLOW	(MGD)	72	80	93.
	c. INFILTRATION	(260)	33	. 36	38
	d. RUNOFF FLOW RATE	(MGD)			
	e. MAXIMUM FLOW RATE	(MGD)	177	196	220
5. INDUSTRIAL WASTE FLOW	o. AVERAGE	(MGD)	49	. 62	81
DATA	b. MAXIMUM	(MGD)	Not Available	Not Available	Not Available
6. TOTAL	AVERAGE FLOW	(MGD)	. 154		210

- 1. Taken from Greely & Hansen Preliminary Report (fig. 3-8)
- 2. Estimated from Domestic Water Consumption

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D. Wastewater Characteristic Complete the Items Coded "S"

			O					
		WASTE LOAD		w a 120		WASTE LOAD		
•		RAW	TREATED			RAW	TREATED	
		[] Actual	[] Actual	No.		Lactual	Actual	
		Estimated	(X) Estimated	,	73a .	Estimated	X Estimate	
ASTE FLOW	MGD	5 210	s 21.0	15. BOD (5 Day 20°C)	MG/L	s 193	s 13	
OLOR	=			16. BOD (5 Day 20°C)	Lbs./Cap/Day	5 0.22		
EMPERATURE	٥F		41	17. BOD (5 Day 20°C)	Lbs./Doy	s 339,000	s 21,800	
·H		5 7.0	5 7.0	13. DISSOLVED OXYGEN	MG/L		s 2.0	
ALKALINITY	MG/L	S M	S M	19. TURBIDITY	Units		S M	
SOLIDS - SUSPENDED	MG/L	in 279	s 28	20. NITROGEN - AMMONIA	MG/L	s 35	s 35	
SOLIDS - SUSPENDED	Lbs./Cap/Day	is 0.36		21. NITROGEN - NITRITE	MG/L		·<1.0	
SOLIDS - SUSPENDED -	Lbs./Day	1,88,000	5 48,800	22. NITROGEN - NITRATE	MG/L		·<1.0	
SOLIDS - SETTLEABLE	M/L	[A 14	£40.1	23. PHOSPHATE (Total Solu	ble PO4) MG/L	S	5 .	
SOLIDS - DISSOLVED	MG/L	M	М .	24. SULFATE	MG/L	Menal	м.	
IRON - DISSOLVED	MG/L	М	M	OTHER (SPECIFY)	(GIVE UNITS)			
IRON (Total)	MG/L	М	м			1.		
MANGANESE	MG/L	M	М		200	1		
ALUMINUM	· MG/L	м .	М.,		Ø 18		1	

Proposed Faciliti	es Description (Locate on Map)
1. Collection:	ft. of gravity sewerto
s s 3 s 25m	,and mgd peak pumping capacity.
2. Conveyance:	ft. of gravity sewerto
	inches in diameter; 1 pumping stations and 75 mgd peak pumping capacity.
3. Treatment:	(Description of Process) Preliminary Treatment (Grit & Screening
	Removal, Primary Settling) followed by oxygen activated sludge and
e sejet jed	chlorination
¥0 (0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

	Is the proposed proexisting (or previous facilities?  If YES, complete (6	usly a <sub>F</sub> ⊣ro	dent co ved)			YES	NO		
	Existing Facilities		on: Comple	ete the Follo	wing Table.	a a a a a a a a a a a a a a a a a a a			
		Design Without Project	Years With Project	Design Capacity (mgd)	Existing Hydraulic (mgd)	Loads Organic #/day 800s	8		
	Collection			e 2					
•	Conveyance		7000	126	าวน์	140,000	=		
- 414	Treatment	1976	1990	136	135	140,000	*		
Α.	Name and address of			-22.					
	City of Philadelph 1160 Municipal Se			***	- A 1		* * * * * * * * * * * * * * * * * * *		
B. Are the existing facilities adequate for the initial, 5-year and design year loads to be generated by the proposed project? If ND, attach an explanation of the steps that will 5-Year X YES NO									
	be taken to correct this problem; if a compliance schedule has been submitted, so Design X YES indicate.								
	7. Does the Proposed Project in any way duplicate existing or previously approved facilities? (If YES, attach an explanation describing the duplication and the reason for it.)								
ВА.	BA. Are there any presently unsewered areas that might be served by the proposed project? If YES, locate areas on map and complete (88).								
В.	Has this possibili design? If NO, at	ty been co	nsidered i planation	n the why not.	, Lx	YES	NO		
	9. Are there any existing facilities that will be phased out as a result of the Proposed Project?  If YES, locate on map and attach a list.  Refer to Preliminary Report  10. Does the Proposed Project involve industrial wastes? If YES, attach an explanation describing								
	the industrial was provided.	tes and th	ie pretreat	ment to be	2.00				



11. Project Financing: Complete the Following Table.

. Estimated		State a/o	Federal Grants	Locally Funded	
	Project Cost	Source	Est. Amt.	Est. Project Cost	
Collection			i .		
Conveyance					
Treatment	3 <sup>1</sup> 8			2.50	

12A. List relevant waste management plans and/or other studies and reports available for reference purposes.

	Title	Sponsor		· Date		
	1. Preliminary Plan-SWW	PCP* - Phila, Water	Dept.	Jan,	1.972	
	2. DRBC Comprehensive Pl	lan -DRBC	1/ 13		8) (4	
###   72	3. DVRPC-Regional Water	Pollution Control Pla	n - DVRPC		- t	
В.	Is the Proposed Project co	onsistent with the				
	information presented in in (12A)? If NO, attach a	the documents listed	X	YES		ИO
С.	Are there any alternatives	s to the Proposed				
	Project more regional in a attach an explanation descented in attach and explanation descented in a detail, and why it is not	scope? (If YES, cribing the alter- as investigated in		YES	<u>x</u>	ИО

## Certification

I certify that the information noted above, and in the attachments hereto are, to the best of my knowledge, true and correct.

Signature of Consulting Engineer

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